

This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) Method for auto-configuration of a new node router (204) ~~to act like a router~~, the node new router being a part of an IP intranetwork (301), the IP intranetwork (301) comprising routers (201,302) interconnected via Point to Point links (202), ~~The said~~ method comprising the steps of:

establishing (104) a physical connection between the new router node (204) and an existing router (201) within the intranetwork (301);

establishing (102) a Point to Point link (202) between the new router node (204) and the existing router (201), over the physical connection;

requesting and retrieving (103) an IP address to make IP communication possible between the new router node (204) and the existing router over the Point to Point link (201);

automatically identifying (104) the resources (205) which are essential for retrieving configuration information for the new router node (204);

automatically configuring (105) the new router node (204) by means of the configuration information; and

starting (103) a routing protocol to establish network connectivity between the new router node (204) and the rest of the intranetwork (301).

2. (Currently Amended) The method according to claim 1 comprising the further step of

providing the existing router (201) with IP addresses, identifying said essential resources, thus making it possible for the new router node to obtain the configuration information from the essential resources (205) via the existing router.

3. (Currently Amended) The method according to claim 1, wherein the method comprising the further steps of

providing the new router node (204) with standard host names defined for the essential resources (205);

obtaining a DNS (Domain Name System) address during set-up (402) of the Point to Point link; and

using the DNS server (303) to resolve the hostnames into IP addresses thus making it possible for the new router node (204) to find the configuration information at the essential resources (205).

4. (Currently Amended) The method according to claim 1 comprising the further steps of

obtaining a DHCP (Dynamic Host Configuration Protocol) address during the establishing (402) of the Point to Point link; and

using the DHCP server address, to identify the essential resources (205) which provide the configuration information.

5. (Currently Amended) The method according to claim 1 comprising the further step of

contacting one of the essential resources (205;) to obtain routing protocol e.g. OSPF (Open Shortest Path First) configuration information.

6. (Currently Amended) The method according to claim 1, wherein the step starting (405) a routing protocol is performed by,

sending a so-called "hello-message" to inform the other routers (302) within the intranetwork (301) that a new router (204) is from now a part of the intranetwork (301).

7. (Currently Amended) The method according to claim 1 wherein the IP intranetwork is a part of a BSS (Base Station System) (401) within a cellular system and the new router node (407), ~~to be configured to work like a router,~~ is co-located with a BTS (Base Transceiver Station) within the Intranet.

8. (Currently Amended) The method according to claim 1 wherein a set of new routers ~~nodes (601; 602; 603; 604)~~ to be autoconfigured is added to the existing router, in cascade, wherein the first new router ~~node (01)~~, connected to the existing router ~~(404)~~, is autoconfigured according to the steps in claim 1, and then comprising the further steps

starting the autoconfiguring of the a new router ~~node~~ closest connected to the last configured router; and

repeating the former step until all new routers ~~nodes~~ in the set are autoconfigured.

9. (Currently Amended) Router ~~(201)~~ ~~characterised by~~ comprising means for detecting ~~(203)~~ a new router ~~added node (204)~~ connected to the router ~~(201)~~ via a Point to Point link ~~(202)~~, the router ~~(201)~~ having connections to essential resources ~~(205)~~ which are provided with configuration information so that the new router ~~node (204)~~, via the router ~~(201)~~, can identify the essential resources ~~(205)~~, obtain configuration information and automatically be configured ~~to start to act like a router~~.

10. (Currently Amended) The router ~~(201)~~ according to claim 9 **characterised** in that at least one of the essential servers is a so-called RA (Resource Allocation) server ~~(306)~~, handling on-demand resource allocation, the RA having means for automatically obtaining configuration information about the intranetwork ~~(301)~~.

11. (Currently Amended) The router according to claim 9 **characterised** in that at least one of the essential resources is a so-called DRC (Dynamic Router Configuration) server ~~(305)~~ having means for automatically generate the configuration information to the new router ~~node~~.

12. (Currently Amended) The router according to claim 9 **characterised** by the ~~(201)~~ router being co-located with a BTS (Base Transceiver Station) ~~(403)~~.

13. (Currently Amended) The router according to claim 12 **characterised** in that the new router ~~added node~~ to be automatically configured is comprises a BTS (407).

14. (Currently Amended) IP intranetwork (304), comprising at least one router according to claim 9, the at least one router communicating via Point to Point links (201), **characterised** in further comprising essential resources (304; ~~305; 306~~) being provided with configuration information and that a new router ~~node~~ (204) being added to the existing router (201), is automatically configured ~~to start to act like a router,~~ within the intranetwork (304), by means of the configuration information.

15. (Currently Amended) The IP intranetwork (304) according to claim 14 **characterised** in that at least one of the essential resources is a ~~so-called~~ DRC (Dynamic Router Configuration) server (305) being capable of automatically generating the configuration information to the new node (204).

16. (Currently Amended) The IP intranetwork (304) according to claim 14 **characterised** in that at least one of the essential servers is a ~~so-called~~ RA (Resource Allocation) server (306) being capable of automatically obtaining configuration information about the intranetwork (304) and handling on-demand resource allocation.

17. (Currently Amended) The IP intranetwork according to claim 9 **characterised** by the IP intranetwork being a part of a BSS (Base Station System) (401) within a cellular system comprising a BSC (Base Station Controller) (402) co-located with a router (406) and at least one BTS (Base Transceiver Station) (403) co-located with a router, BSCs and BTSs being interconnected via Point to Point link (202).

18. (Currently Amended) The IP intranetwork according to claim 12 **characterised** in that the new router node ~~is~~ comprises a BTS (407), which is added to an existing BTS (403) and is autoconfigured to act like a router.
